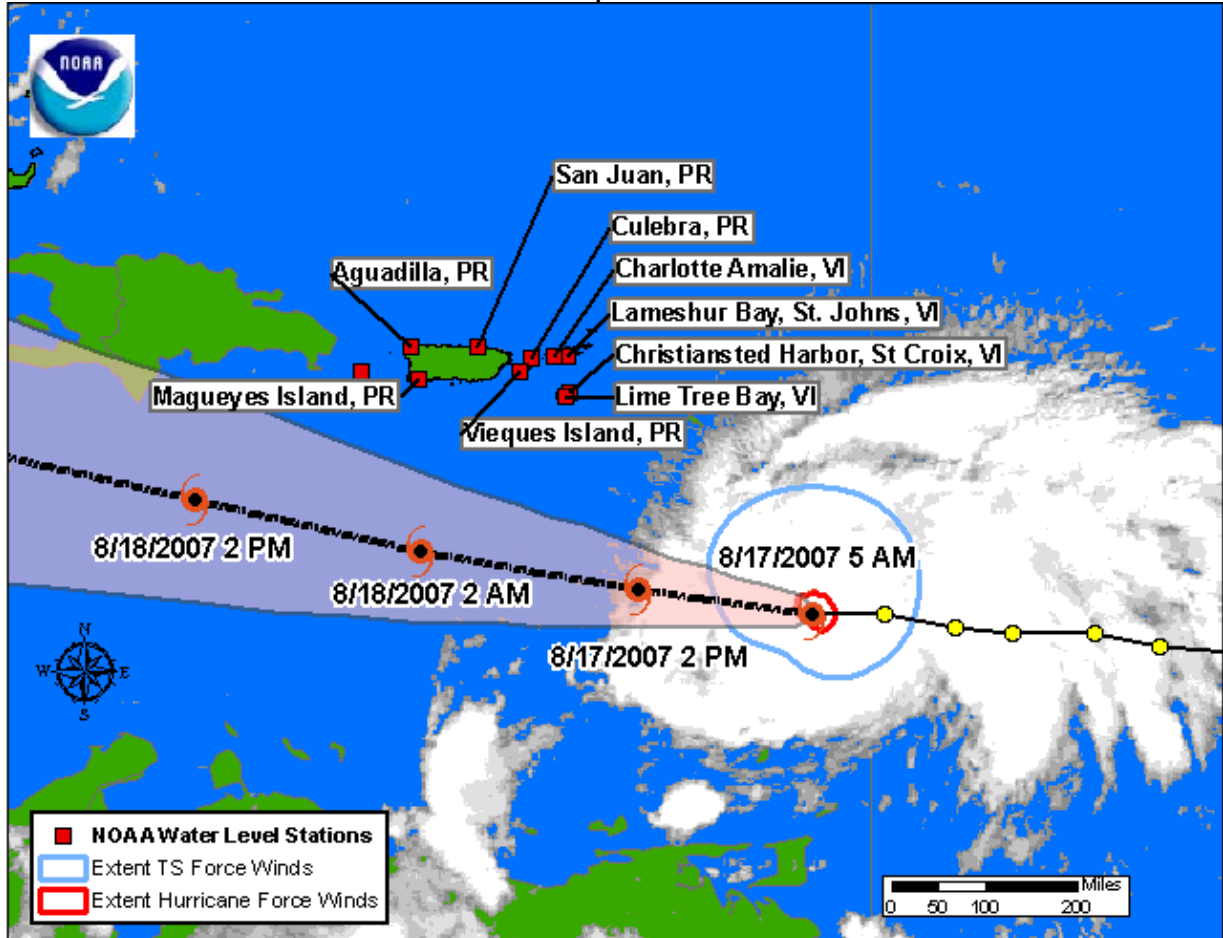




Hurricane DEAN QUICKLOOK  
Posted: 06:00 AST 08/17/2007

NOAA and NOAA Partnership Stations Relative to the Storm



#### Storm Analysis

While center of Hurricane DEAN is passing near St. Lucia and Martinique, NOS water levels are not being affected yet in Puerto Rico and U.S. Virgin Islands stations.

Water level observations as of 8/17/2007 6:00 am AST:

NOS water level at Christiansted Harbor, St Croix, VI is around 0.56 ft (0.17 m) above predicted. Next high tide at 08/17/2007 Thurs 08:31 AM AST.

NOS water level at Lime Tree Bay, VI is around 0.26 ft (0.08 m) above predicted. Next high tide at 08/17/2007 Thurs 11:14 AM AST.

NOS water level at Culebra, PR is around 0.13 ft (0.04 m) above predicted.

NOS water level at Lameshur Bay, St. Johns, VI is around 0.40 ft (0.12 m) above predicted.

NOS water level at Charlotte Amalie, VI is around 0.33ft (0.10 m) above predicted.

Next high tide at 08/17/2007 Thurs 12:14 PM AST.

NOS water level at Vieques Island, PR is around 0.34ft (0.10 m) above predicted.

Next high tide at 08/17/2007 Thurs 05:28 PM AST.

NOS water level at San Juan, PR is around 0.05 ft (0.02 m) above predicted.

Next high tide at 08/17/2007 Thurs 12:12 PM AST.

NOS water level at Magueyes Island, PR is around 0.27 ft (0.08 m) above predicted.

Next high tide at 08/17/2007 Thurs 07:54 PM AST.

**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION**

AT 5 AM AST 0900 UTC THE METEOROLOGICAL SERVICE OF ANTIGUA HAS ISSUED A TROPICAL STORM WARNING FOR THE BRITISH VIRGIN ISLANDS. A TROPICAL STORM WARNING REMAINS IN EFFECT FOR THE U.S. VIRGIN ISLANDS AND PUERTO RICO. A TROPICAL STORM WARNING ALSO REMAINS IN EFFECT FOR THE FOLLOWING ISLANDS OF THE LESSER ANTILLES GRENADA AND ITS DEPENDENCIES ST. VINCENT AND THE GRENADINES BARBADOS SABA ST. EUSTATIUS MONTserrat ANTIGUA NEVIS. ST KITTS BARBUDA ST. MAARTEN AND ANGUILLA. A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED WITHIN THE WARNING AREA WITHIN THE NEXT 24 HOURS.

AT 5 AM AST 0900 UTC A TROPICAL STORM WATCH IS IN EFFECT FOR THE SOUTHWESTERN PENINSULA OF HAITI FROM PORT-AU-PRINCE TO THE HAITI/DOMINICAN REPUBLIC BORDER. A TROPICAL STORM WATCH REMAINS IN EFFECT FOR THE SOUTH COAST OF THE DOMINICAN REPUBLIC FROM CABO NGANO TO THE HAITI/DOMINICAN REPUBLIC BORDER. A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA GENERALLY WITHIN 36 HOURS.

INTERESTS ELSEWHERE IN THE CENTRAL AND WESTERN CARIBBEAN INCLUDING JAMAICA AND THE CAYMAN ISLANDS SHOULD CLOSELY MONITOR THE PROGRESS OF DEAN.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL WEATHER OFFICE.

AT 500 AM AST 0900UTC THE CENTER OF HURRICANE DEAN WAS LOCATED NEAR LATITUDE 14.3 NORTH LONGITUDE 60.9 WEST OR IN THE ST. LUCIA CHANNEL BETWEEN ST. LUCIA AND MARTINIQUE.

DEAN IS MOVING TOWARD THE WEST NEAR 24 MPH 39 KM/HR AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE WITH SOME DECREASE IN FORWARD SPEED DURING THE NEXT 24 HOURS. THIS MOTION SHOULD TAKE THE CENTER OF DEAN AWAY FROM THE LESSER ANTILLES LATER TODAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 100 MPH 160 KM/HR WITH HIGHER GUSTS. DEAN

**IS A CATEGORY TWO HURRICANE ON THE SAFFIR-SIMPSON CALE. STRONGER WINDS ESPECIALLY IN GUSTS ARE LIKELY OVER ELEVATED TERRAIN NEAR THE PATH OF THE CENTER. SOME STRENGTHENING IS FORECAST DURING THE NEXT 24 HOURS.**

**HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 25 MILES 35 KM FROM THE CENTER AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 140 ILES 220 KM. FORT-DE-FRANCE ON MARTINIQUE RECENTLY REPORTED A WIND GUST OF 59 MPH 94 KM/HR WHILE BARBADOS HAS RECENTLY REPORTED A WIND GUST OF 55 MPH 89 KM/HR.**

**THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 976 MB 28.82 INCHES.**

**STORM SURGE FLOODING OF 2 TO 4 FEET ABOVE NORMAL TIDE LEVELS ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES IS POSSIBLE NEAR THE CENTER OF DEAN.**

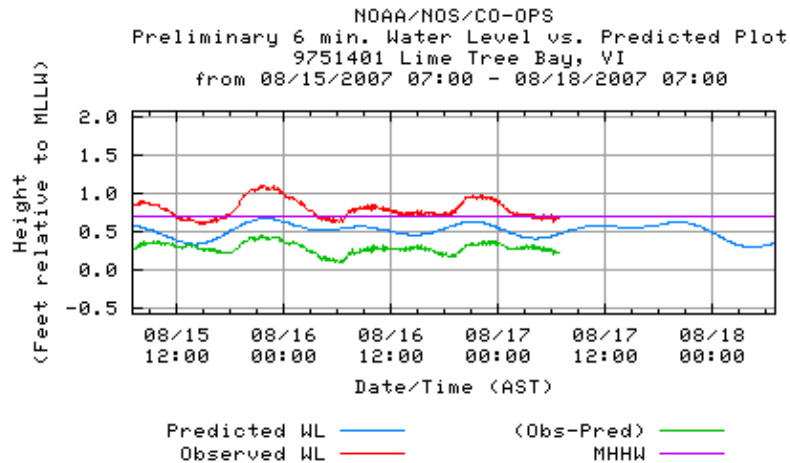
**STORM TOTAL RAINFALL OF 2 TO 5 INCHES WITH ISOLATED MAXIMUM AMOUNTS OF 10 INCHES IN MOUNTAINOUS AREAS ARE POSSIBLE IN ASSOCIATION WITH DEAN IN THE LESSER ANTILLES. ACROSS PUERTO RICO STORM TOTAL AMOUNTS OF 1 TO 2 INCHES CAN BE EXPECTED WITH MAXIMUM AMOUNTS OF UP TO 5 INCHES. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUDSLIDES.**

**AN INTERMEDIATE ADVISORY WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER AT 800 AM AST FOLLOWED BY THE NEXT COMPLETE ADVISORY AT 1100 AM AST.**

For the purpose of timely release, data contained within this QUICKLOOK have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Lime Tree Bay - Water Level](#), [Culebra - Water Level](#), [Vieques Island - Water Level](#), [San Juan - Water Level](#), [Magueyes Island - Water Level](#), [Lameshur Bay, St. Johns - Barometric](#), [Magueyes Island - Barometric](#), [San Juan - Winds](#), [Christiansted Harbor, St Croix - Water Level](#), [Lameshur Bay, St. Johns - Water Level](#), [Aguadilla - Water Level](#), [Charlotte Amalie - Water Level](#), [Lime Tree Bay - Barometric](#), [San Juan - Barometric](#), [Charlotte Amalie - Winds](#), [Magueyes Island - Winds](#),

**Lime Tree Bay, VI** - [Station Map](#) [Return to List](#)

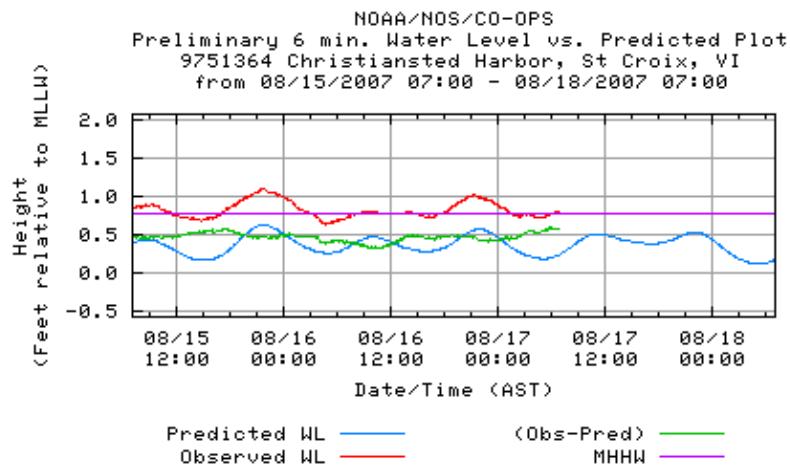


Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.67 ft. Predicted: 0.46 ft. Residual: 0.21 ft.**

Historical Maximum Water Level: 11/17/1999, 1.88 ft. above **MHHW**

**Christiansted Harbor, St Croix, VI** - [Station Map](#) [Return to List](#)

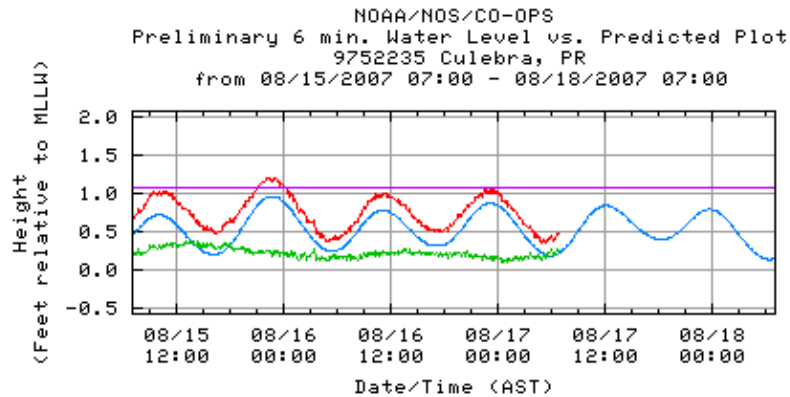


Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.81 ft. Predicted: 0.23 ft. Residual: 0.58 ft.**

Historical Maximum Water Level: n/a

**Culebra, PR - Station Map** [Return to List](#)

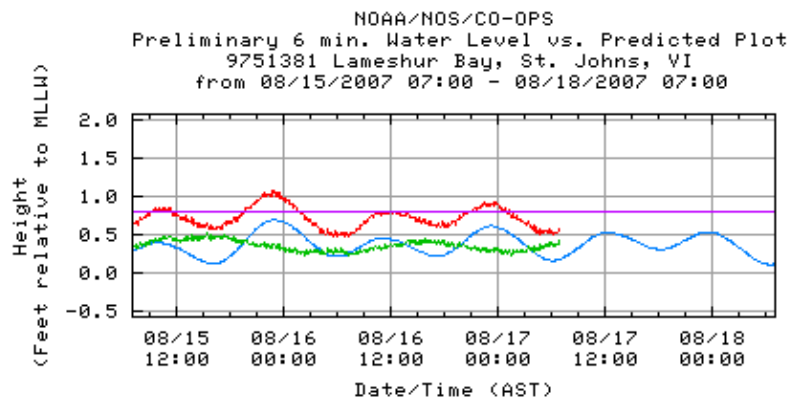


Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.46 ft. Predicted: 0.22 ft. Residual: 0.24 ft.**

Historical Maximum Water Level: n/a

**Lameshur Bay, St. Johns, VI - Station Map** [Return to List](#)

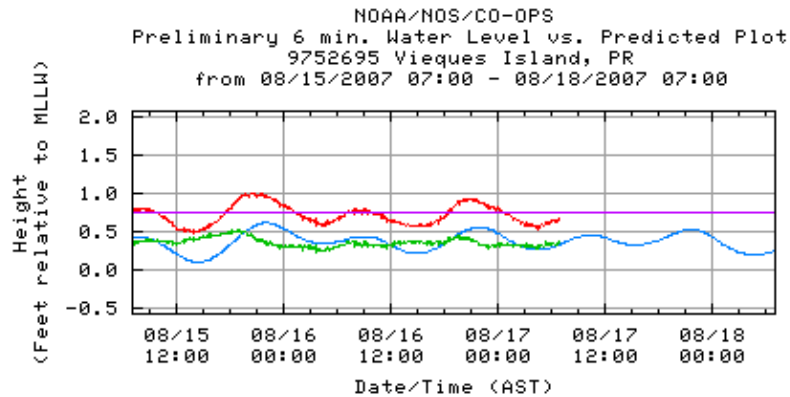


Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.55 ft. Predicted: 0.17 ft. Residual: 0.38 ft.**

Historical Maximum Water Level: n/a

**Vieques Island, PR - Station Map** [Return to List](#)



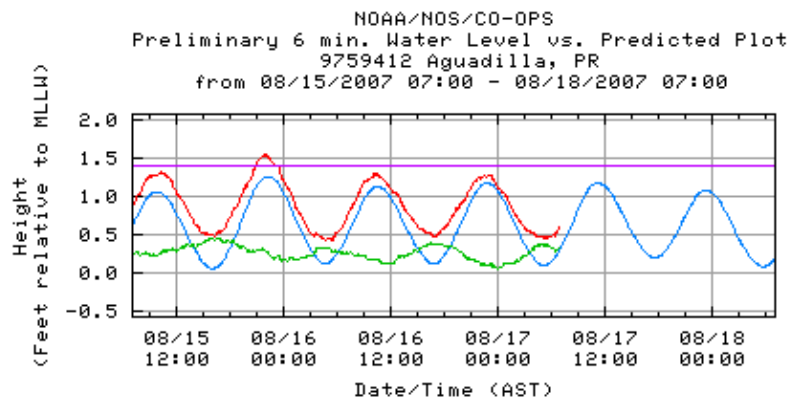
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.68 ft. Predicted: 0.32 ft. Residual: 0.36 ft.**

Historical Maximum Water Level: n/a

**Aguadilla, PR - Station Map** [Return to List](#)



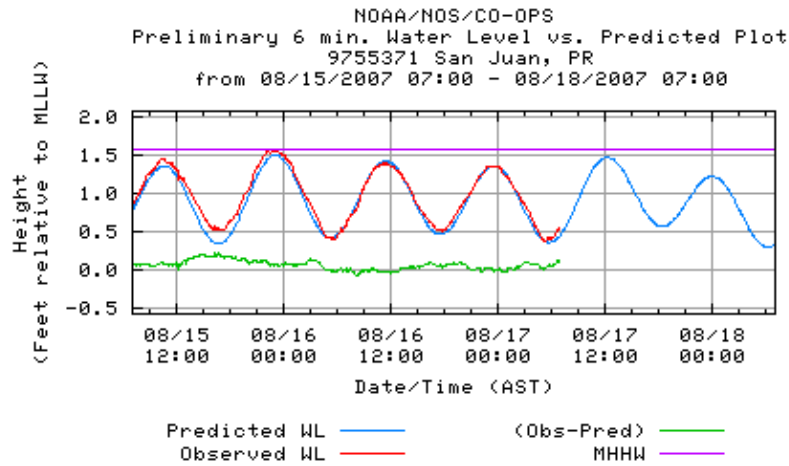
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.60 ft. Predicted: 0.29 ft. Residual: 0.31 ft.**

Historical Maximum Water Level: n/a

**San Juan, PR - Station Map** [Return to List](#)

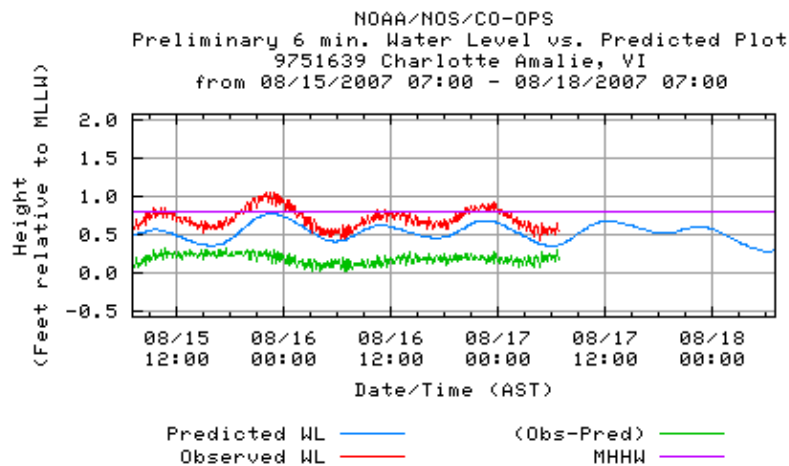


Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.54 ft. Predicted: 0.43 ft. Residual: 0.11 ft.**

Historical Maximum Water Level: 09/21/1998, 1.21 ft. above **MHHW**

**Charlotte Amalie, VI - Station Map** [Return to List](#)

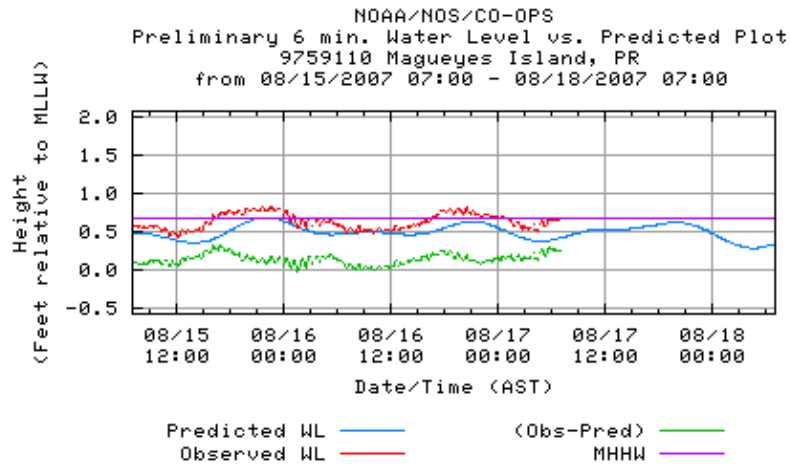


Last Observed Sample: 08/17/2007 06:48 (AST)

Relative to **MLLW**: **Observed: 0.54 ft. Predicted: 0.36 ft. Residual: 0.18 ft.**

Historical Maximum Water Level: 09/16/1995, 2.93 ft. above **MHHW**

**Magueyes Island, PR - Station Map** [Return to List](#)

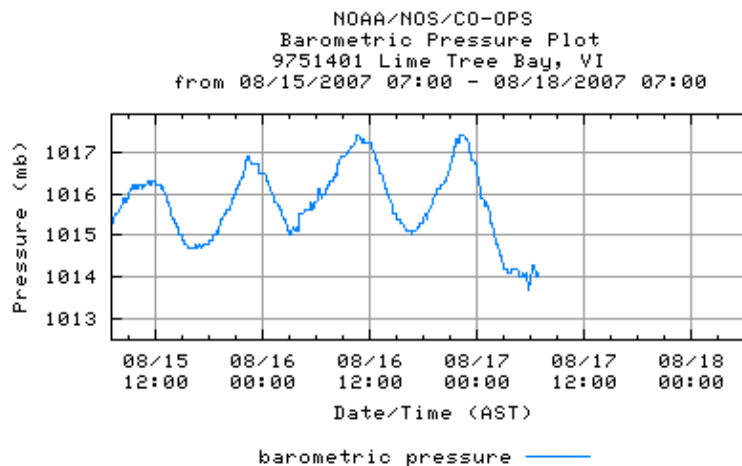


Last Observed Sample: 08/17/2007 06:54 (AST)

Relative to **MLLW**: **Observed: 0.66 ft. Predicted: 0.41 ft. Residual: 0.25 ft.**

Historical Maximum Water Level: 09/22/1998, 1.6 ft. above **MHHW**

**Lime Tree Bay, VI - Station Map** [Return to List](#)

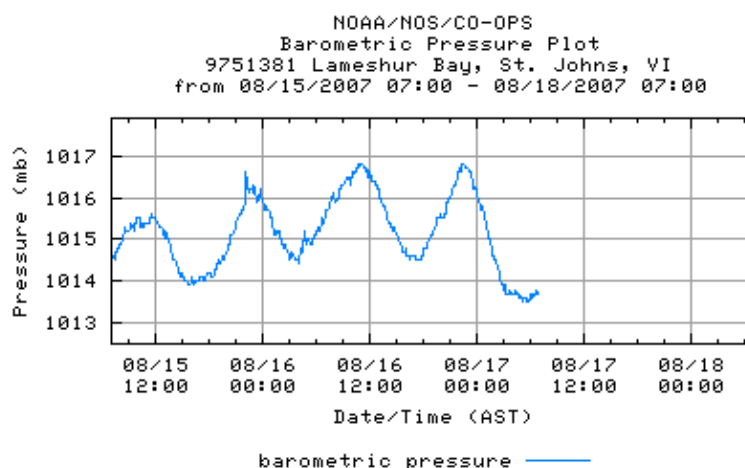


Last Observed Sample: 08/17/2007 06:48 (AST)

**Barometric Pressure: 1014.1 mb**



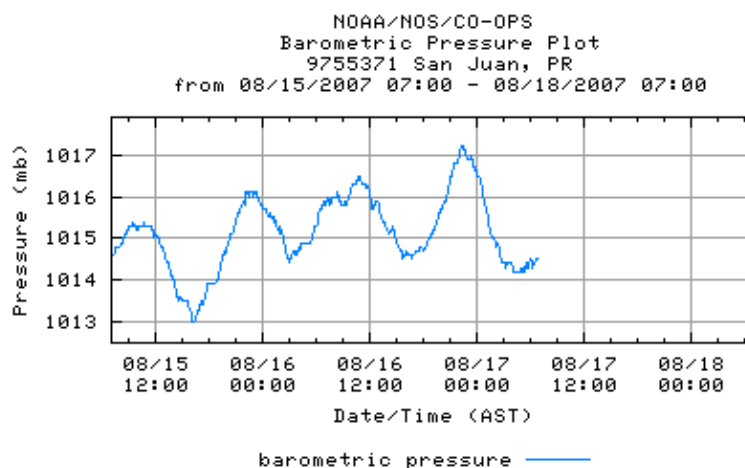
**Lameshur Bay, St. Johns, VI - Station Map** [Return to List](#)



Last Observed Sample: 08/17/2007 06:42 (AST)

Barometric Pressure: 1013.7 mb

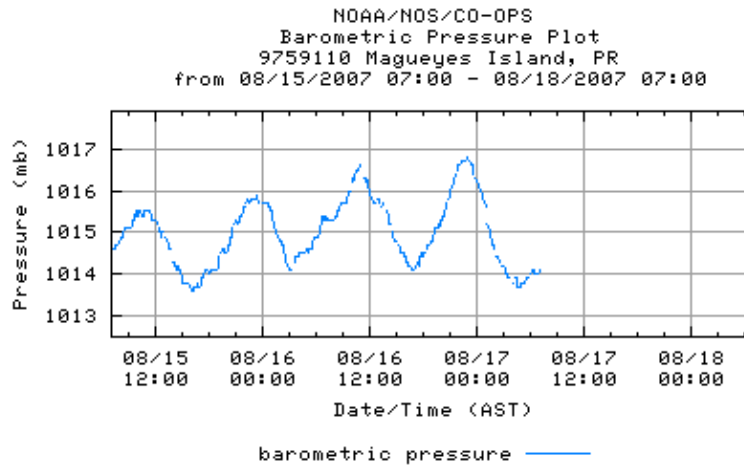
**San Juan, PR - Station Map** [Return to List](#)



Last Observed Sample: 08/17/2007 06:42 (AST)

Barometric Pressure: 1014.5 mb

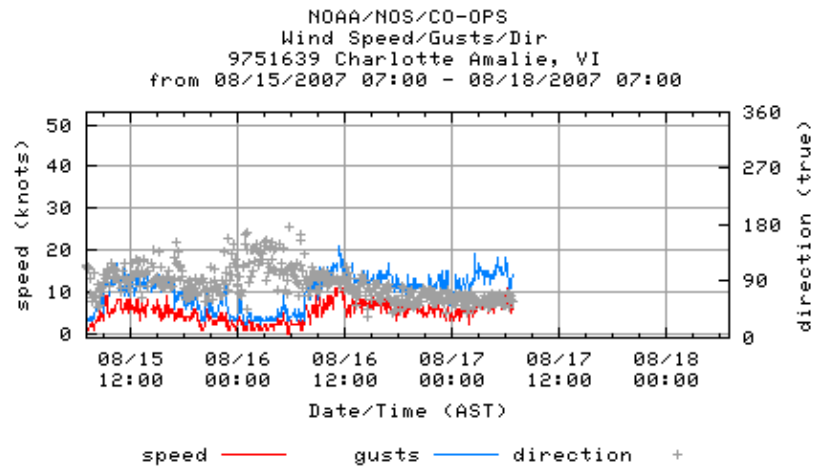
**Maqueyes Island, PR - Station Map** [Return to List](#)



Last Observed Sample: 08/17/2007 06:54 (AST)

Barometric Pressure: 1014.1 mb

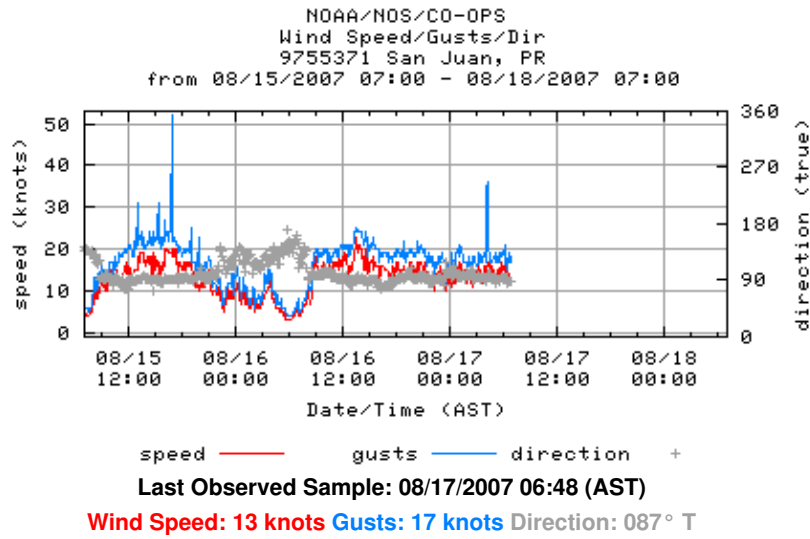
**Charlotte Amalie, VI - Station Map** [Return to List](#)



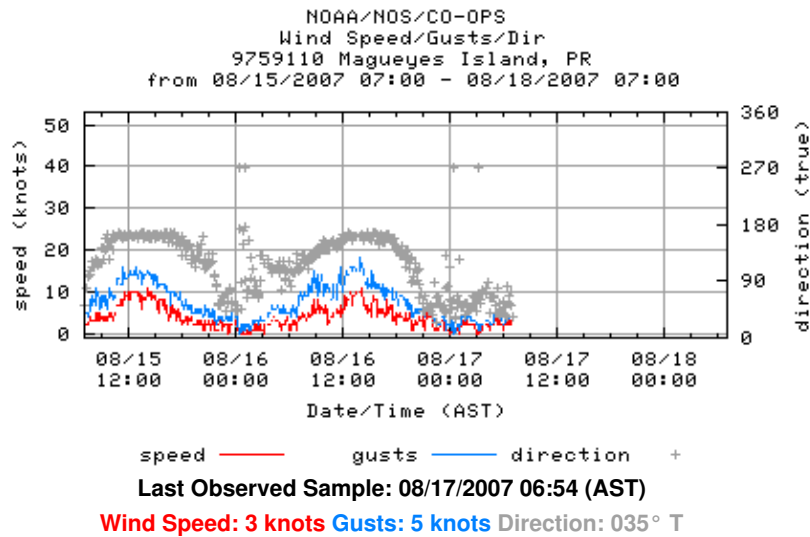
Last Observed Sample: 08/17/2007 06:48 (AST)

Wind Speed: 6 knots Gusts: 14 knots Direction: 059° T

**San Juan, PR - Station Map** [Return to List](#)



**Magueyes Island, PR - Station Map** [Return to List](#)



## Hurricane DEAN QUICKLOOK, POSTED 06:00 AST 08/17/2007

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce